

## Antibiotic Sensitivity-Restoring and Photosensitive Agents

### Challenge

Due to heavy use of antibiotics, drug-resistant bacteria have emerged and led to a drastic decrease in antibiotic effectiveness. WHO projects that by year 2050, 10 million people will die every year world-wide from drug-resistant bacterial infections.

### Solution

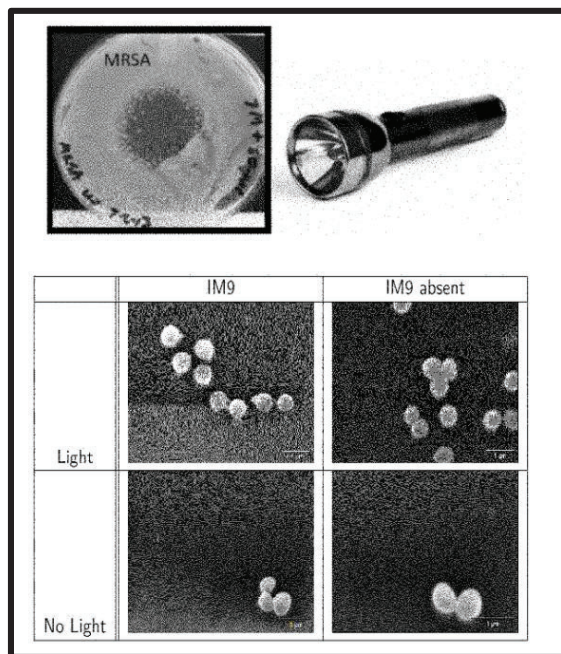
The invention discloses a novel class of compounds which restore the efficacy of seven (7) separate classes of clinically-used antibiotics in drug-resistant, Gram-negative, and Gram-positive bacteria. A subset of these antibiotic-potentiating compounds is light-activated; this increases the bacteria-killing efficacy by two orders of magnitude. Finally, the photoactivatable compounds work alone against multi-drug-resistant cancers.

### Benefits and Features

- Used to overcome drug-resistant bacterial infections
- Eradicates light-accessible cancer cells

### Market Potential / Applications

This invention has applications in the healthcare industry and within the pharmaceutical industry.



### Developments and Licensing Status

*Status:* Available

*Commercial sponsor sought?* Yes

### Patent Status

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Chinese Patent Issued ZL201680036144X

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Japan Patent Pending

EP Patent Pending

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